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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/727,972	12/03/2003	Chao-Hsi Chuang	B-5314 621540-9	7681
36716	7590	05/02/2006	EXAMINER	
LADAS & PARRY 5670 WILSHIRE BOULEVARD, SUITE 2100 LOS ANGELES, CA 90036-5679			RUTLAND WALLIS, MICHAEL	
			ART UNIT	PAPER NUMBER
			2835	

DATE MAILED: 05/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/727,972	CHUANG ET AL.
Examiner	Art Unit	
Michael Rutland-Wallis	2835	

– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 03 December 2003.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-8 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 6-8 is/are allowed.

6) Claim(s) 1,2,4 and 5 is/are rejected.

7) Claim(s) 3 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 03 December 2003 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-2 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nguyen et al. (U.S. Pat. No 6,876,248) in view of Dondale (U.S. Pat. No 6,072,306) Nguyen teaches an automatic adjustment system for source current and sink current mismatch see column 8 lines 37-55 also see figure 5. Nguyen teaches a calibration component item 510 within a overall feedback unit for example see column 10 line 39-45 wherein Nguyen teaches during initialization or calibration periods parameters are sent to a controller item 1105 and used to implement a control reference table (item 320); a determination device (item 405N), connected to the startup compensation /setup device to output a control signal according to the control reference table; and a current compensation device (item 410), connected to the startup compensation /setup device and to the determination device, to switch corresponding internal switches on and off according to the control signal and complete the desired compensation when the source current is the same as the sink current. Nguyen does not teach the use of a first and second switch in the connection claimed, however the

use of a second switch to connect startup setup device and the determination device would have been obvious to one of ordinary skill in the art at the time of the invention if in fact it is not already present in the device of Nguyen in order to disable in the feedback unit when it is not functioning properly or not required, the use of the first switch connected between the startup compensation unit and the compensation unit while not disclosed would have been an obvious modification to Nguyen for similar reasons as the inclusion of the second switch if it is held no such switch would be present in the device of Nguyen. Dondale for example provides a teaching of which an electronic device wherein transistor type switches are used in the control of sourcing and sinking current levels in a device it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Nguyen to include the use of a first and second switch in order to control the feedback unit's operation.

With respect to claim 2 Nguyen is silent on the state of the switch during the initialization current compensation and an opened state after the initialization current compensation completed. It would have been obvious to one of ordinary skill in the art at the time of the invention to close the compensation device and an opened state after the initialization current compensation completed in order to switch the feedback unit off or on.

With respect to claim 5 Nguyen teaches the determination device consists of a bandgap reference circuit (item 505), a comparator with negative terminal connected to the bandgap reference circuit, and a selector (one output of item 405N indicates a selection of signals) with two input terminals respectively connected to the comparator

and the second switch and output terminal connected to the current compensation device. Nguyen teaches the signal F is selected from the Ir and Is.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nguyen et al. (U.S. Pat. No 6,876,248) in view of Dondale (U.S. Pat. No 6,072,306) in further view of Gillette (U.S. Pat. No. 6,028,438)

With respect to claim 4 Nguyen teaches the startup compensation/setup device comprises, an amplifier (item 605) with negative terminal connected to the detecting resistor, an analog-to-digital converter (item 710 receives electrical signals which are stored digitally in the parameter table also see fig 5 Nguyen teaches the use of digital and analog signals and conversion items 505 and 510) connected in series to the amplifier, and a logic controller (item 1105) connected in series to the analog-to-digital converter. Nguyen does not teach a detecting resistor. Gillette teaches a detecting resistor (Rsense) similar to that claimed in current control. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Nguyen and Dondale to further include a detecting resistor if it is held such a resistor is not used by Nguyen.

Allowable Subject Matter

Claims 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The of reasons for the indication of allowable

subject matter: Nguyen teaches the device of claim 1 and further teaches the use of a transmission line as claimed but fails to teach the further limitation a series of at least one first constant current source and at least one third switches, one end of the series connected to the transmission line and the other end connected to a positive voltage source; a series of at least one second constant current source and at least one fourth switches, one end of the series connected to the transmission line and the other end connected to a ground voltage. These further limitations to claim 3 are not taught or rendered obvious by the prior art.

Claims 6-8 are allowed. The following is an examiner's statement of reasons for allowance: Nguyen teaches An automatic adjustment system for source current and sink current mismatch, comprising: a first compensation unit, having multiple circuits, each consisting of a first constant current source and a first compensation switch in which, for source current compensation, an input of the first constant current source is connected to a positive voltage source and an open terminal of the first compensation switch is connected to a transmission line; a second compensation unit, having multiple circuits. Nguyen does not teach a second constant current source and a second compensation switch in which, for sink current compensation, an output of the second constant current source is connected to a ground voltage and an open terminal of the second compensation switch is connected to the transmission line, wherein the first and second compensation units form a railing configuration. These further limitations to claim 6 are not taught or rendered obvious by the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Oh et al (U.S. Pat. No. 6,239,652) may be of relevance to claim 1 and Nguyen et al (U.S. Pub. No. 20050154547) teaches a similar device to the Nguyen reference relied upon in the action above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Rutland-Wallis whose telephone number is 571-272-5921. The examiner can normally be reached on Monday-Thursday 7:30AM-6:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn D. Feild can be reached on 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MRW


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